FIG.7

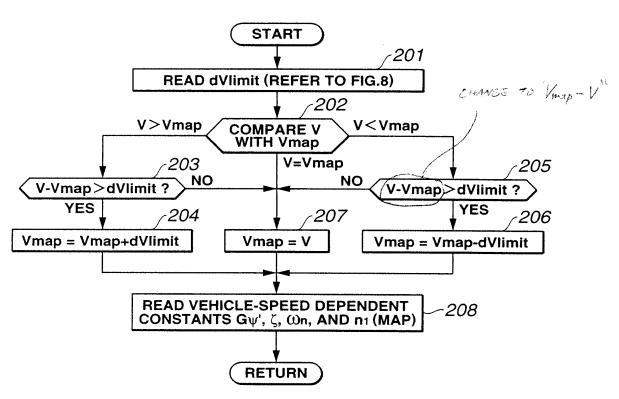
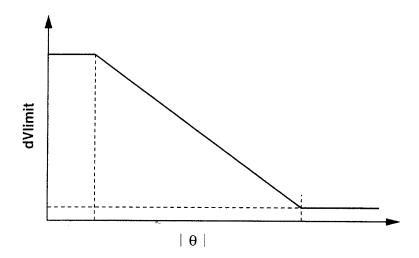


FIG.8



IEEE 8td 100-1992

The New IEEE Standard Dictionary of Electrical and Electronics Terms [Including Abstracts of All Surrent IEEE Standards]



Gediminas R. Kurpis, Chair

limiter

limiter circuits

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device to f exciting a iotoelectric 1601

igineering). the source. ce may be ensity and plor of an sed by its nates. [126]

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[32], [34]

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t ensures eded. For asactions.

a limit check will reveal an error situation if an attempt is made to add a fifth transaction to a record. 610.5-1990

limit cycle (control systems). A closed curve in the state space of a particular control system, from which state trajectories may recede, or which they may approach, for all initial states sufficiently close to the curve. [3]

limit cycle, stable (control systems). One that is approached asymptotically by a state trajectory for all initial states sufficiently close.

limit cycle, unstable (control systems). One from which state trajectories recede for all initial states sufficiently close.

limited availability (telephone switching sys-tems). Availability that is less than the number of outlets in the desired group. 312-1977w

ilmit**ed-domain data element**. A data element wittowe domain is bounded. For example, a data giestern SEX with a domain of [M,F].

610.5-1990

limital proportionality, region of. See: region of limited proportionality.

imited signal (regar). A signal that is limited in Supplimade if the dynamic range of the system. 686-1982, [42]

characteristics. A property of a system characteristics by stability when the input signal dills within a particular range and by magains when the signal falls outside this 154-1953w

miter 11) (excitation systems for synchrowas machines). An element of the excitation system which acts to limit a variable by modifying or replacing the functions of the primary detector element when predetermined condibeen reached. Notes: Examples: (A) excitation limiter prevents the voltmistor from lowering the excitation of monous machine below a prescribed level. (13) An over excitation limiter prevents the voltage regulator from raising the excitation of the synchronous machine above a level that would cause a thermal overload in the machine field; refer to ANSI C50.13-1977. (C) A volts per hertz limiter acts, through the voltage regulator to correct for a machine terminal voltage to frequency ratio that is considered abnormal. (D) Other types of limiters may be used to control various quantities, such as, rotor angle, excitation output, etc. See: ferri-diode limiter; ferrite limiter; gyromagnetic limiter; multipactor limiter; passive limiter; p-i-n diode limiter: plasma limiter; quasiactive limiter.

421.1-1986 (2) (data transmission). (1) A device in which some characteristic of the output is automatically prevented from exceeding a predetermined value. (2) More specifically, a transducer in which the output amplitude is substantially linear with regard to the input up to a predetermined value and substantially constant thereafter. Note: For waves having both positive and negative values, the predetermined value is usually independent of sign. 599-1985w (3) (rotating machinery). An element or group of elements that acts to limit by modifying or replacing the functioning of a regulator when predetermined conditions have been reached. Note: Examples are minimum excitation limiter, maximum excitation limiter, maximum armature-current limiter.

(4) (radio receivers). A transducer whose output is constant for all imputs above a critical value. Note: A limiter may be used to remove amplitude modulation while transmitting angle modulation. See: radio receiver; transducer.

(5) (excitation systems). A feedback element of the excitation system that acts to limit a variable by modifying or replacing the function of the primary detector element when predetermined conditions have been reached 421,-1972 " limiting in

limiter circuits (analog computers). A circuit of nonlinear elements that restrict the electrical s nonlinear elements that restrict the electrical excursion of a variable in accordance with specified some specified criteria. "Hard limiting" is a specified the object limiting action with negligible evariation in output in the range where the origin. Is a limiting with limited. "Soft limiting" is a limiting with limiting in appreciable variation in output in the limiter in the where the output is limited. A bridge limiter is a bridge circuit used as a limiter circuit. It is ambient an analog computer, a "feedback limiter" is about the system to limiter circuit usually employing blassed diodes in shunting the feedback component of an operational amplifier; an "input limiter is "some limiter circuit usually employing biased diodes in the amplifier input channel that operates by limiting the current entering the summing ujunction. "Linear system or element"—a system with the properties: if y_1 is the response x_1 is the response to x_2 , then (i) y_2 is the response to x_1 , then (ii) y_2 is y_3 in y_4 in the response to y_4 in y_4 in 14.65 1977 PHOS response to kx1. See: stop.

limiting (automatic control). The intentional imposition or inherent existence of a boundary on the range of a variable, for example, on the speed of a motor. 421-1972, [3]

limiting ambient temperature (1) (electric equipment) (thermal classification of electric equipment and electrical insulation). The highest (or lowest) ambient temperature at which electric equipment is expected to give specified performance under specified conditions, for example, rated load. 1-1986 (2) (equipment rating). An upper or lower limit of a range of ambient temperatures within which equipment is suitable for operation at its rating. Where the term is used without an adjective the upper limit is meant. See: limiting insulation system temperature.

limiting angular subtense (α_{\min}) (laser-maser). The apparent visual angle which divides intra-

beam view

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